



# SAFETY DATA SHEET

Issue Date: 13-Jul-2020

Revision Date: 13-Jul-2020

Version: 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

**Product Name:** Crossfire® Bed Bug Concentrate

**EPA Registration Number:** 1021-2776

### Other means of identification

**Part Code:** 3071, 3071B

**Other Information:** Crossfire® is a registered trademark of Sumitomo Chemical Co., Ltd.

### Recommended use of the chemical and restrictions on use

**Recommended Use:** Insecticide.

### Details of the supplier of the safety data sheet

#### **Manufacturer Address:**

McLaughlin Gormley King Company  
7325 Aspen Lane North  
Minneapolis, MN 55428  
USA

#### **FAX #:**

(763) 544-6437

Telephone Number: (800) 645-6466, or (763) 544-0341

e-Mail Address: mgk-sds@mgk.com

### Emergency telephone number

**24 Hour TRANSPORTATION Emergency:** CHEMTREC®: (800) 424-9300

**International:** (703) 527-3887

**24 Hour MEDICAL Emergency:** SafetyCall®: (888) 740-8712, or (952) 852-9509

### **Comments:**

MGK® Hours of operation are 8:00 a.m. to 4:30 p.m. CST, 14:00 to 22:30 GMT.  
For MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call 24 hours a day to  
(888) 740-8712, or (952) 852-9509.

## 2. HAZARDS IDENTIFICATION

### Classification:

#### **OSHA Regulatory Status:**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Dusts/Mists)

Category 4

### Label elements

#### Emergency Overview

### **WARNING**

#### **Hazard statements**

- H332 - Harmful if inhaled

**Appearance:** White , Opaque**Physical state:** Liquid**Odor** Sweet**Precautionary Statements - Prevention:**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P271 - Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response:**

P321 - Specific treatment (see Section 4/ First Aid).

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

**Precautionary Statements - Storage:**

P404 - Store in a closed container

**Precautionary Statements - Disposal:**

P501 - Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC):**

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name            | CAS No.     | Weight-% |
|--------------------------|-------------|----------|
| Clothianidin             | 210880-92-5 | 4.00     |
| Metofluthrin             | 240494-70-6 | 0.10     |
| Piperonyl Butoxide (PBO) | 51-03-6     | 10.00    |

\*The exact percentage (concentration) of composition has been withheld as a trade secret

Comments: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

### 4. FIRST AID MEASURES

**Aspiration pneumonia hazard:** • Not applicable**Description of first aid measures****Eye contact:**

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Skin Contact:**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Ingestion:**

If swallowed, IMMEDIATELY call a poison control center or doctor for treatment

advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.

**Inhalation:** Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**Self-protection of the First Responder:** Use personal protective equipment as required.

**Note to physicians:** For skin effects, a highly efficient therapeutic agent for Pyrethrin/ Pyrethroid exposure is topical application of tocopherol acetate (Vitamin E).

## 5. FIRE-FIGHTING MEASURES

### **Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **Unsuitable extinguishing media:**

Caution: Use of water spray when fighting fire may be inefficient.

**Hazardous combustion products:** Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

### **Specific hazards arising from the chemical**

No information available.

### **Explosion data**

**Sensitivity to Mechanical Impact:** None.

**Sensitivity to Static Discharge:** None.

### **Protective equipment and precautions for firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures**

**Personal precautions:** Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional ecological information.

### **Methods and material for containment and cleaning up**

**Methods for containment:** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up:** Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling:** Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Use with local exhaust ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. For more information, see product label.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions:** Keep container tightly closed in a dry and well-ventilated place. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. For more information, see product label.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

**Exposure Guidelines:** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

**Appropriate engineering controls**

**Engineering Controls:** Safety showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/face protection:** Protective eyewear is recommended, but is not required.

**Skin and body protection:** Protective gloves are recommended, but are not required.

**Respiratory protection:** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations:** When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties:**

**Physical state:** Liquid  
**Appearance:** White , Opaque  
**Odor** Sweet  
**Odor threshold:** No information available  
**Color (Gardner Scale):** No information available

| <b>Property:</b>                       | <b>Values:</b>           | <b>Comment: • Method</b> |
|--|--------------------------|--------------------------|
| <b>pH:</b>                             | 5.34                     | @ 22.2 °C                |
| <b>Melting point / freezing point:</b> | No information available |                          |
| <b>Boiling point / boiling range:</b>  | No information available |                          |
| <b>Flash point:</b>                    | > 93.3 °C / > 200.0 °F   | Tag Closed Cup           |

|   |                               |
|---|-------------------------------|
| <b>Evaporation rate:</b>                            | No information available      |
| <b>Flammability (solid, gas):</b>                   | No information available      |
| <b>Upper flammability limit (UEL):</b>              | No information available      |
| <b>Lower flammability limit (LEL):</b>              | No information available      |
| <b>Vapor pressure:</b>                              | No information available      |
| <b>Vapor density:</b>                               | No information available      |
| <b>Specific Gravity:</b>                            | No information available      |
| <b>Water solubility:</b>                            | No information available      |
| <b>Partition coefficient; n-Octanol/<br/>Water:</b> | No information available      |
| <b>Autoignition temperature:</b>                    | No information available      |
| <b>Decomposition temperature:</b>                   | No information available      |
| <b>Kinematic viscosity:</b>                         | No information available      |
| <b>Dynamic viscosity:</b>                           | 44.3 @ 20°C, 35.0 @ 40°C, cPs |
| <b>Refractive Index:</b>                            | No information available      |

**Other Information:**

|                         |                                    |
|-------------------------|------------------------------------|
| <b>Density</b>          | 1.0131 g/cm <sup>3</sup> @ 22.4 °C |
| <b>VOC Content (%):</b> | 2.48                               |

**Miscibility/ Solubility:**

|                               |                    |
|-------------------------------|--------------------|
| <b>Water:</b>                 | Partially miscible |
| <b>Alcohol:</b>               | Partially miscible |
| <b>Aromatic solvents:</b>     | Partially miscible |
| <b>Petroleum distillates:</b> | Partially miscible |

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous polymerization:** Hazardous polymerization does not occur.

**Conditions to avoid**

Extremes of temperature and direct sunlight.

**Incompatible materials:**

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

**Hazardous Decomposition Products**

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

**Numerical measures of toxicity - Product Information**

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| <b>Oral LD<sub>50</sub></b>       | >5,000 mg/kg (rat)                |
| <b>Dermal LD<sub>50</sub></b>     | >5,000 mg/kg (rabbit)             |
| <b>Inhalation LC<sub>50</sub></b> | >2.15 mg/L, (rat; 4 hours)        |
| <b>Eye contact:</b>               | Non-irritating to eyes. (rabbit). |

|                                       |   |
|---------------------------------------|---|
| <b>Skin Contact:</b>                  | Non-irritating to the skin. (rabbit).   |
| <b>Sensitization:</b>                 | Non-sensitizer. (guinea pig).   |
| <b>Piperonyl Butoxide:</b>            | Marginally higher incidences of benign liver tumors in mice were observed following lifetime high dose exposures to PBO. The significance of these observations is questionable and under review. The doses at which tumors were observed for PBO greatly exceeded potential human exposure from labeled uses. Doses at which these effects were observed greatly exceeded anticipated human dietary intake. At anticipated dietary exposure levels, it is highly unlikely that this product will result in carcinogenic effects. |
| <b>Carcinogenicity/ Oncogenicity:</b> |   |
| <b>Carcinogenicity</b>                | This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP   |
| <b>Reproductive toxicity:</b>         | No information available.   |
| <b>Developmental Toxicity</b>         | No information available.   |
| <b>Teratogenicity:</b>                | No information available.   |
| <b>STOT - single exposure:</b>        | No information available.   |
| <b>STOT - repeated exposure:</b>      | No information available.   |
| <b>Chronic toxicity:</b>              | Avoid repeated exposure.  |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

### Persistence and degradability

No information available.

### Bioaccumulation

No information available.

**Other adverse effects:** No information available

### Environmental hazards (EPA):

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Disposal of wastes:** Disposal should be in accordance with applicable regional, national and local laws and regulations. For more information, see product label.

**Contaminated packaging:** For more information, see product label.

## 14. TRANSPORT INFORMATION

### DOT (Department of Transportation)

**Proper Shipping Name:** Insecticides, Insect or Animal Repellent, Liquid

**Hazard Class:** This material is not hazardous.

**Air (IATA/ ICAO)**

**Proper Shipping Name:** Insecticides, Insect or Animal Repellent, Liquid  
**Hazard Class:** This material is not hazardous.

**Vessel (IMO/ IMDG)**

**UN/ID Number:** UN3082  
**Proper Shipping Name:** Environmentally hazardous substance, Liquid, n.o.s.(Clothianidin, Metofluthrin)  
**Hazard Class:** 9  
**Packing Group:** III  
**Marine Pollutant:** Yes

|                                   |
|-----------------------------------|
| <b>15. REGULATORY INFORMATION</b> |
|-----------------------------------|

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name                      | SARA 313 - Threshold Values % |
|------------------------------------|-------------------------------|
| Piperonyl Butoxide (PBO) - 51-03-6 | 1.0                           |

**SARA 311/312 Hazard**

**Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | Yes |
| Chronic Health Hazard             | No  |
| Fire hazard                       | No  |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations:**

**California Proposition 65:**

This product does not contain any intentionally added Proposition 65 chemicals

**U.S. EPA Label Information:**

EPA Registration Number: 1021-2776

**Difference between SDS and EPA (FIFRA) Pesticide label:**

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for Safety Data Sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use. The hazard information required on the pesticide label is reproduced below:

**International Inventories:**

|                      |                 |
|----------------------|-----------------|
| <b>TSCA</b>          | Complies        |
| <b>DSL/NDSL</b>      | Complies        |
| <b>EINECS/ELINCS</b> | Does not comply |
| <b>ENCS</b>          | Does not comply |
| <b>IECSC</b>         | Does not comply |
| <b>KECL</b>          | Does not comply |
| <b>PICCS</b>         | Does not comply |
| <b>AICS</b>          | Does not comply |

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

|                    |                         |                       |                           |   |
|--------------------|-------------------------|-----------------------|---------------------------|---|
| <b><u>NFPA</u></b> | <b>Health hazards</b> 2 | <b>Flammability</b> 1 | <b>Instability</b> 0      | <b>Physical and Chemical Properties</b> |
| <b><u>HMIS</u></b> | <b>Health hazards</b> 1 | <b>Flammability</b> 1 | <b>Physical hazards</b> 0 | <b>Personal protection</b><br>X         |

*Chronic Hazard Star Legend \* = Chronic Health Hazard*

**Issue Date:** 13-Jul-2020  
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**Revision Note:** - New SDS.

**SDS Prepared By:** Troy Azzivitto, MGK® Chemistry Department.  
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their own particular use of this product. If necessary, contact MGK® to confirm that you have the most current product label and SDS.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.

**End of Safety Data Sheet**